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Gregory J. Robertson, Janet Russell and David Fifield

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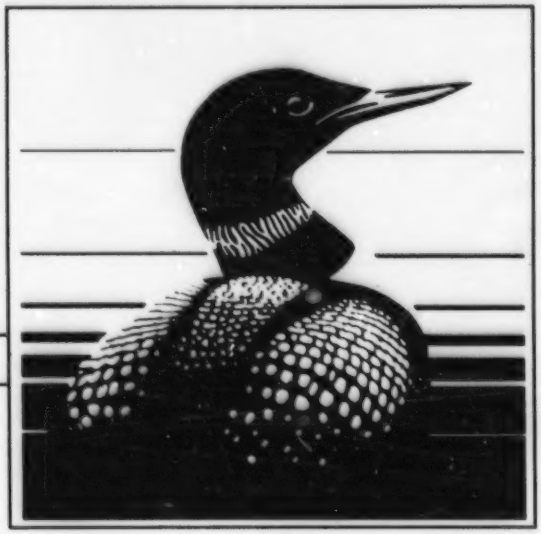
Environmental Conservation Branch



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BREEDING POPULATION ESTIMATES FOR THREE LEACH'S STORM-PETREL COLONES IN SOUTHEASTERN NEWFOUNDLAND, 2001

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Summary

Breeding populations of three major Leach's Storm-petrel (*Oceanodroma leucorhoa*) colonies in southeastern Newfoundland were surveyed in the summer of 2001. As area of occupied habitat was not well known on these islands, island-wide grids were established to determine the extent of petrel breeding habitat, and occupied burrow densities were assessed by grubbing. We estimated that 351 886 ± 22 443 (95% CI; 307 222 – 396 550) pairs of petrels bred on Gull Island, Witless Bay, 65 280 ± 8967 (95% CI; 47 432 – 83 129) pairs bred on Green Island, and 13 879 ± 1903 (95% CI; 10 028 – 17 730) bred on Middle Lawn Island in 2001. Burrow occupancy rates were similar among islands (70 – 75%) while burrow densities were higher on Gull Island. The population on Gull Island and Green Island did not show signs of changing, while the Middle Lawn Island population has decreased by 47% since this last survey in 1981. Declines in petrel and Manx Shearwater (*Puffinus puffinus*) populations on Middle Lawn Island, suggest a local impact on breeding procellariiformes on this island. The establishment of a large gull colony on nearby Offer Lawn Island may be affecting breeding tubenoses on Middle Lawn Island.

Résumé

Au cours de l'été 2001, les populations nicheuses des trois plus importantes colonies d'océanites cul-blanc (*Oceanodroma leucorhoa*) du Sud-Est de Terre-Neuve ont fait l'objet d'un recensement. Comme les zones d'habitat occupé dans ces îles n'étaient pas très bien connues, un quadrillage a été effectué sur tout le territoire pour déterminer l'étendue du territoire de nidification des océanites, et la densité des terriers occupés a été évaluée par essouchement. Il a été estimé que 351 886 ± 22 443 (CI de 95 %; 307 222 – 396 550) couples d'océanites nichaient dans l'île Gull, sise dans la baie Witless; que 65 280 ± 8 967 (CI de 95 %; 47 432 – 83 129) couples nichaient dans l'île Green; et que 13 879 ± 1 903 (CI de 95 %; 10 028 – 17 730) couples nichaient dans l'île Middle Lawn en 2001. Les taux d'occupation des terriers étaient semblables d'une île à l'autre (70 – 75 %), mais la densité des terriers était la plus forte dans l'île Gull. La population des îles Gull et Green ne montrait pas de signe de changement, tandis que la population de l'île Middle Lawn avait diminué de 47 % depuis le dernier relevé effectué en 1981. Le déclin des populations d'océanites et de puffins des Anglais (*Puffinus puffinus*) de l'île Middle Lawn semble indiquer une incidence locale sur la nidification des procellariidés (puffins) dans cette île. L'établissement d'une importante colonie de goélands dans l'île voisine de Offer Lawn affecte peut-être la nidification des procellariidés dans l'île Middle Lawn.

1. Introduction

The east coast of Newfoundland harbours some of the largest Leach's Storm-petrel colonies in the world (Sklepkovych and Montevecchi 1989). In spite of the global significance of these colonies, most major colonies have not been surveyed in the last 20 years (Cairns et al. 1989), so little data exists to assess current population trends in this species (but see Stenhouse et al. 2000). This is largely due to the extensive and time-consuming field work needed to effectively monitor this nocturnal, burrow-nesting seabird.

A number of potential threats face storm-petrels in Newfoundland, and whether these threats impact populations is simply not known. As examples, it is not known whether increased predation on adult storm-petrels from food-stressed large gulls (Stenhouse and Montevecchi 1999), changes in marine ecosystems, or accumulation of toxic compounds from industrial activities (Boersma 1986) have impacted storm-petrel populations in the Northwest Atlantic.

To begin to fill this information gap, estimates of breeding populations of three major storm-petrel colonies were undertaken in the summer 2001. These data are compared to previous surveys.

2. Study sites

Three islands were surveyed in 2001 (Figure 1). Gull Island (47°16'N, 52°46'W), an island measuring 1.6 km x 0.8 km in the Witless Bay Seabird Ecological Reserve, is mostly forested and harbours large populations of all breeding seabirds, including Herring Gulls (*Larus argentatus*) and Great Black-backed Gulls (*L. marinus*) (Robertson et al. 2001). Green Island (46°53'N, 56°5'W), located midway between the Burin Peninsula and the island of St. Pierre, is a low-lying 0.8 x 0.4 km island, with mostly grasses and ferns, and does not harbour significant populations of any breeding seabirds except for storm-petrels. Middle Lawn Island (46°52'N, 55°37'W) the smallest of the islands (370 m x 290 m) is located off the southern portion of the Burin Peninsula. Middle Lawn is a steeper island, and largely vegetated by meadows and ferns. It harbours a small colony of Black Guillemots (*Cephus grylle*) of 100 pairs, and the only known colony of Manx Shearwater (*Puffinus puffinus*) in North America (Storey and Lien 1985). Further information on all 3 islands can be found in Cairns et al. (1989).

Gull Island was surveyed from 12 to 20 July, Middle Lawn Island from 31 July to 4 Aug and Green Island from 7 to 15 Aug 2001.

3. Methods

As previous surveys did not document the area used by breeding petrels, we established island-wide grids to, 1) determine the limits and area of the petrel breeding habitat, and then, 2) determine occupied burrow densities. For each island, we laid out a grid that would include at least 100 intersection points, for Gull Island, a 75 m x 75 m grid was used, for Green Island 25 x 50 m grid and for Middle Lawn a 25 m x 25 m grid was laid out. On Green and Middle Lawn Island, these grids were laid out with surveyors flags across the island. The grid was laid out along true north-south and east-west axes

using a compass (except for Green Island, which was gridded out based on the magnetic north-south axis) and distances were measured with tape measures. For the densely forested Gull Island distances were measured using a GPS unit instead.

At each intersection of the grid lines, a 16 m^2 circular plot was established by placing a stake at the centre of the plot and marking the ground with a can of spray paint tied to a cord of appropriate length. All burrows entrances were counted in the plot, and the contents assessed. In some cases, it was necessary to excavate hatches to accurately assess contents, but this was only done when hatches could be dug and replaced without doing undue damage to the burrow. Burrows entrances were categorized as either an entrance to another burrow, a burrow too short to hold a pair of breeding petrels, an empty burrow, and occupied burrow (adult and/or egg present) or the contents could not be assessed (unknown).

For the analysis, we chose to only include grid squares that had at least one burrow in the plot as occupied habitat. These plots without burrows could be included to calculate occupied burrow densities and then multiplied to total island area to obtain a population estimate. However, removing zero density plots from the calculation of occupied burrow densities has the desirable effect of removing a large number of zeros from the sample, and allows an estimate of the mean and error of occupied burrow density that is not based on a distribution with a large skew.

Each plot represented 16 m^2 of the 625, 1250 or 5625 m^2 square around the plot (or 2.56%, 1.28% and 0.28% for Middle Lawn, Green and Gull Island, respectively). Once occupied area was calculated, burrow densities were calculated as the mean in all occupied areas, and occupancy rates were taken as the mean proportion of occupied burrows to all burrows where the contents could be assessed.

Additionally, previously unanalysed data were available for Gull Island from 1984 and 1985. These surveys were based on three strip transects running east-west across the island. Along these transects a total of 100 25 m^2 plots were assessed. We provide population estimates based on these two data sets in this report as well.

Variances of products from sample means were calculated following Goodman (1960), and the Delta method was used to calculate variances when multiplying a known value with a sample mean.

4. Results

4.1 2001 survey

On Gull Island, more (61%) plots contained burrows, than on Green Island (42%) and Middle Lawn Island (44%) (Table 1). Burrow densities were also higher on Gull Island and lowest on Middle Lawn Island, while occupancy rates were similar among islands (Table 1).

On Gull Island, burrows were distributed evenly throughout the interior of the island (Figure 2). On Middle Lawn Island, burrows were concentrated to the southeast portion of the island (Figure 3). On Green Island, the distribution of burrows was patchy,

with a somewhat contiguous clump of occupied habitat on the eastern side of the island (Figure 4).

4.2 Comparison with earlier surveys

Breeding population size estimates were similar on Gull Island for 1984, 1985 and 2001, all between 300 000 and 350 000 pairs (Table 2). The 1979 estimate of 530 000 breeding pairs was obtained from a single belt transect through Gull Island. That transect happened to run through an area of very high burrow density, and unfortunately, unrepresentative, part of the island. Thus, we believe the apparent decline from 1979 to 1984 is a sampling artefact. The 1984 and 1985 estimates are based on 3 belt transects, and these three transects provided more representative sampling of the island. Comparisons with earlier surveys from 1960 to 1973 also suggest a breeding population in the low hundreds of thousands.

Previous surveys for Green and Middle Lawn Islands are fewer (Table 3). The population on Green Island has apparently not changed much since 1978, and the 1978 estimate is well within the 95% CI of the 2001 estimate. The population on Middle Lawn Island apparently increased through the 1970s to a high of 26 313 pairs in 1981. However, since then the population has declined, as the 1981 estimate does not lie within the confidence bounds of the 2001 estimate of 13 879 pairs.

5. Discussion

Our survey design effectively delimited petrel-breeding habitat and provided what appeared to be robust estimates of burrow density and occupancy rates. A disadvantage of our technique was the labour involved, as 23 days of field work from two people (not including travel to islands) was needed to grid out all islands and to assess occupancy rates. Further, grubbing may be disruptive to breeding birds.

However, our estimates have standard errors 6.4% of the mean for Gull Island, and 14% for the other two islands, and all estimates are based on respectable sample sizes (minimum 46 occupied plots). So the statistical properties of the population estimates are good. Obtaining tighter estimates of variance, especially for Middle Lawn and Green, is likely not possible, as burrow densities on these islands were quite variable, especially on Green Island. More effort would probably not reduce error estimates much further, highlighting the limitations of population surveys for burrow nesting birds. Only large changes, such as a change in population size of a 25% or more would be detected between a pair of surveys. Continuous assessment, over a time series, would be needed to detect subtle and long-term changes.

In spite of our inability to detect minor changes, we did detect a 47% reduction in the Middle Lawn Island breeding population. Interestingly, the Manx Shearwater colony on Middle Lawn Island has also declined from 360 non-breeders in 1981 to 91 non-breeders in 2001 (Robertson in press). Further, only 3 eggs were found in 2000, while 13 eggs were laid by shearwaters in 1981 (Storey and Lien 1985, Robertson in press). The cause of this decline is not known, but the establishment of a large colony of gulls on adjacent Offer Lawn Island may be affecting the colony (Lien and Ledwell 1990, P. Thomas and A. Boyne, unpubl. data). Both shearwaters and petrels are vulnerable to predation by large gulls (Lee and Haney 1996, Stenhouse and Montevecchi 1999,

Stenhouse et al. 2000), and Lien and Ledwell (1990) noted evidence of gull predation on storm-petrels during their 1989 visit to Middle Lawn Island. Similarly, the recent establishment of a gull colony and consequent predation was suspected to cause a 90% reduction in a small storm-petrel colony in northeastern Newfoundland (Robertson and Elliot 2002).

On the other hand, the population on Green Island, approximately 30 km to the west, has not detectably changed, suggesting that changes in the Middle Lawn colony may be a local effect. Green Island is also farther offshore than Middle Lawn, possibly resulting in fewer disturbances from humans or mammalian predators.

The trends on Gull Island are encouraging, and suggest that this major colony, second in size only to Baccalieu Island in the Northwest Atlantic (Sklepkovych and Montevecchi 1989), has been stable for the last 20 years. Similarly, breeding populations on adjacent Great Island have not changed from 1979 to 1997. Gulls consume large numbers (tens of thousands annually) of storm-petrels on Great Island (Stenhouse et al. 2000), and there is no reason to suspect the same does not occur on Gull Island. However, as with Great Island, storm-petrels have been able to maintain their breeding population in the face of this predation. Gull populations are declining in Witless Bay (Robertson et al. 2001), so predation pressure on petrels may be also declining. However, in spite of an overall decline, nesting gulls numbers are increasing in the forested interior of Gull Island, and these birds are likely focusing their foraging efforts on petrels (Robertson et al. 2001).

To summarize, the large colonies on Gull and Great Island, in Witless Bay, currently have stable populations. Green Island, another relatively large colony at about 70 000 pairs, also appears stable. But two smaller colonies, Middle Lawn Island, and Small Island in the Wadham Island group (Robertson and Elliot 2002) are both showing signs of substantial declines. These two colonies share one thing in common; both have had a large colony of gulls become establish nearby within the last 20 years. However, these data sets are based on only a few surveys spread over 5 decades, so any interpretations need to be made with caution. Continued monitoring of colonies of varying sizes is certainly warranted to clarify the status and trends of petrels breeding in Newfoundland.

6. Acknowledgments

This project was funded as part of *Census and Sounds, 2001*, a joint partnership between the Alder Institute, the Important Bird Areas Program and the Canadian Wildlife Service. We thank the Parks and Natural Areas Division, Department of Tourism, Recreation and Culture, of the province of the Newfoundland and Labrador for permission to work in the Witless Bay Seabird Ecological Reserve. Rachel Bryant assisted with the survey on Green Island.

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Table 1. Burrow densities, occupancy rates and estimated breeding population size (in pairs) of Leach's Storm-petrels breeding on 3 colonies in southeastern Newfoundland, 2001. All values presented ± 1 SE, with 95% confidence intervals in parentheses for the population estimates.

	Gull Island	Green Island	Middle Lawn Island
Number of plots assessed	132	192	106
Number of plots with burrows	81	80	47
Number of plots where occupancy rates assessed	80	79	46
Size of plots (m^2)	5625	1250	625
Burrow density (per m^2)	1.070 ± 0.061	0.874 ± 0.123	0.666 ± 0.089
Occupancy rate	0.722 ± 0.022	0.747 ± 0.037	0.709 ± 0.037
Occupied burrow density	0.772 ± 0.049	0.653 ± 0.090	0.472 ± 0.065
Population estimate (pairs)	351 886 ± 22 443 (307 222 – 396 550)	65 280 ± 8 967 (47 432 – 83 129)	13 879 ± 1903 (10 028 – 17 730)

Table 2. Assumed occupied breeding area, occupancy rates and burrow densities of Leach's Storm-petrels breeding on Gull Island, Witless Bay, 1984 and 1985. Plots were all 25 m^2 and plots with no petrel burrows were included. Plots were distributed along 3 east-west transects, about ¼, ½ and ¾ of the way down in the island. Area occupied taken from Cairns and Verspoor (1980) and data from CWS files.

	1984	1985
Number of plots	100	100
Area occupied (m^2)	562 479	562 479
Burrow density (per m^2)	0.761± 0.053	0.678± 0.047
Occupancy rate	0.822 ± 0.017	0.802 ± 0.024
Occupied burrow density (per m^2)	0.625 ± 0.045	0.544 ± 0.038
Population estimate (pairs)	351 805 ± 25 446 (301 321 – 402 289)	305 726 ± 21 191 (263 683 – 347 768)

Table 3. Summary of breeding population estimates of Leach's Storm-petrels (in pairs) breeding on Gull Island (Witless Bay), Green Island and Middle Lawn Island.

Year	Gull Island	Green Island	Middle Lawn Island
1942	500[a]		
1960	400 000[b]		
1969	500 000[c]		
1973	210 000[d]		
1974			11 190[e]
1975			16 050[e]
1977			19 477[e]
1978		72 000[f]	
1979	533 186[g]		
1981			26 313[e,h]
1984	351 805[i]		
1985	305 276[i]		
2001	351 866[i]	65 280[i]	13 879[i]

[a] Peters and Burleigh (1951)
[b] Huntingdon et al. (1963)
[c] Haycock (1969)
[d] Brown et al. (1975)
[e] J. Lien, unpublished data
[f] W. Montevecchi, unpublished files
[g] Cairns and Verspoor (1980)
[h] Storey and Lien (1985)
[i] this study

NOTE: These data are also available in the Atlantic Region Seabird Colony Database, housed in Sackville, New Brunswick.

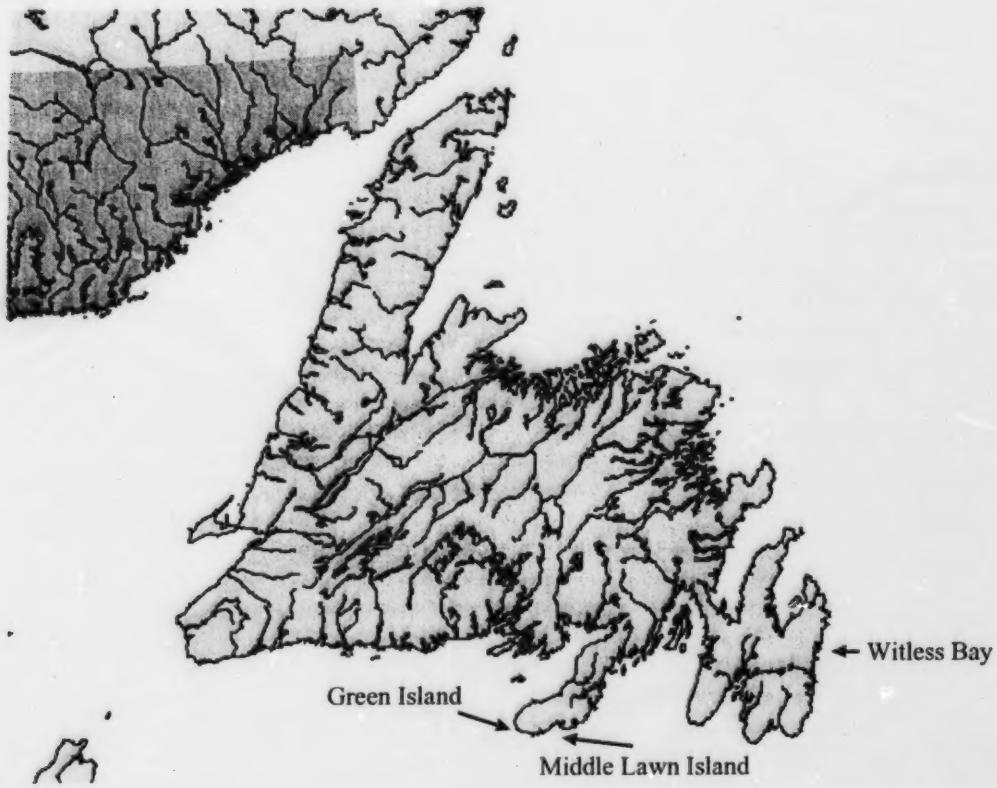

Figure 1. Location of three Newfoundland colonies surveyed for Leach's Storm-petrels, 2001.

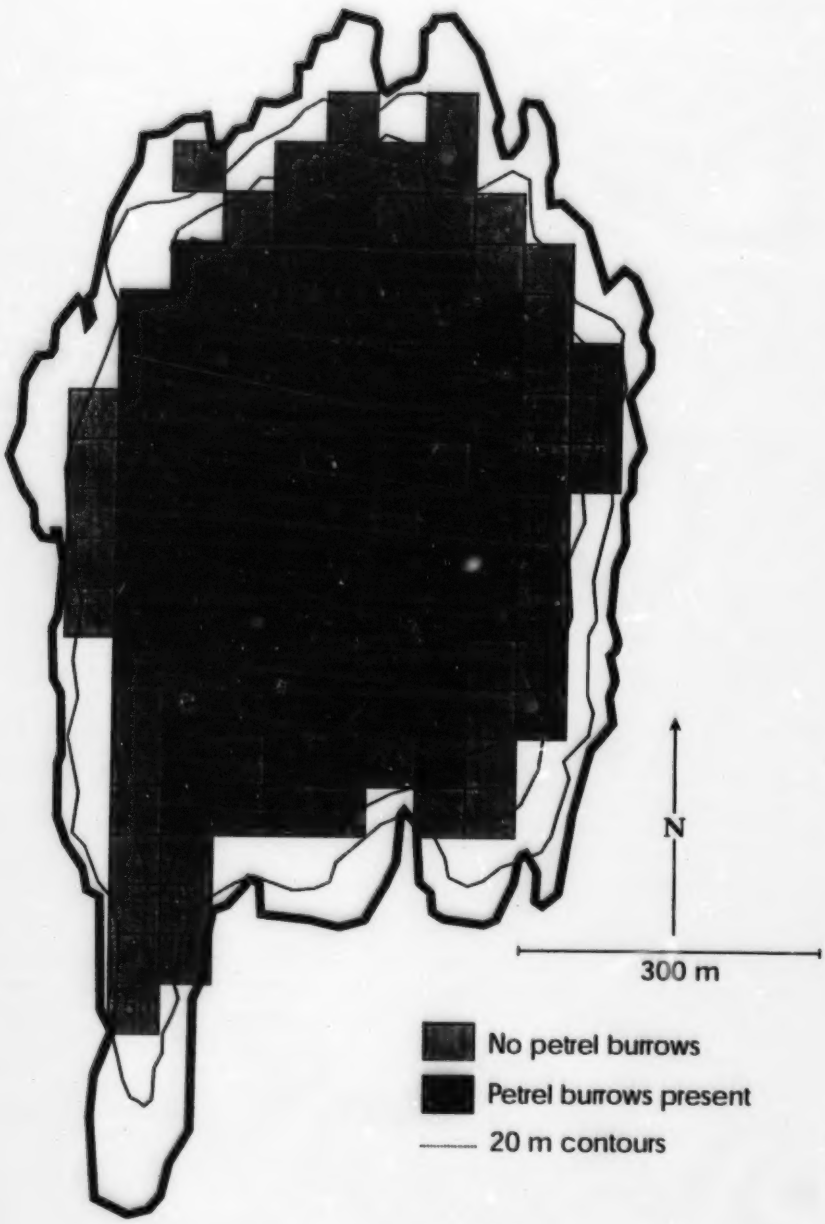

Figure 2. Distribution of Leach's Storm-petrel burrows in 2001 on Gull Island, Witless Bay, Newfoundland.

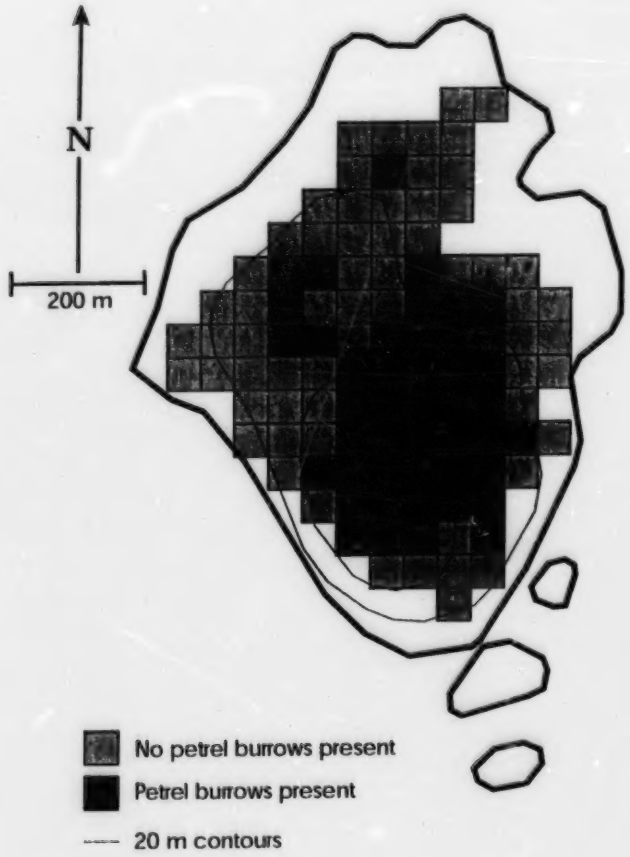

Figure 3. Distribution of Leach's Storm-petrel burrows in 2001 on Middle Lawn Island, Newfoundland.

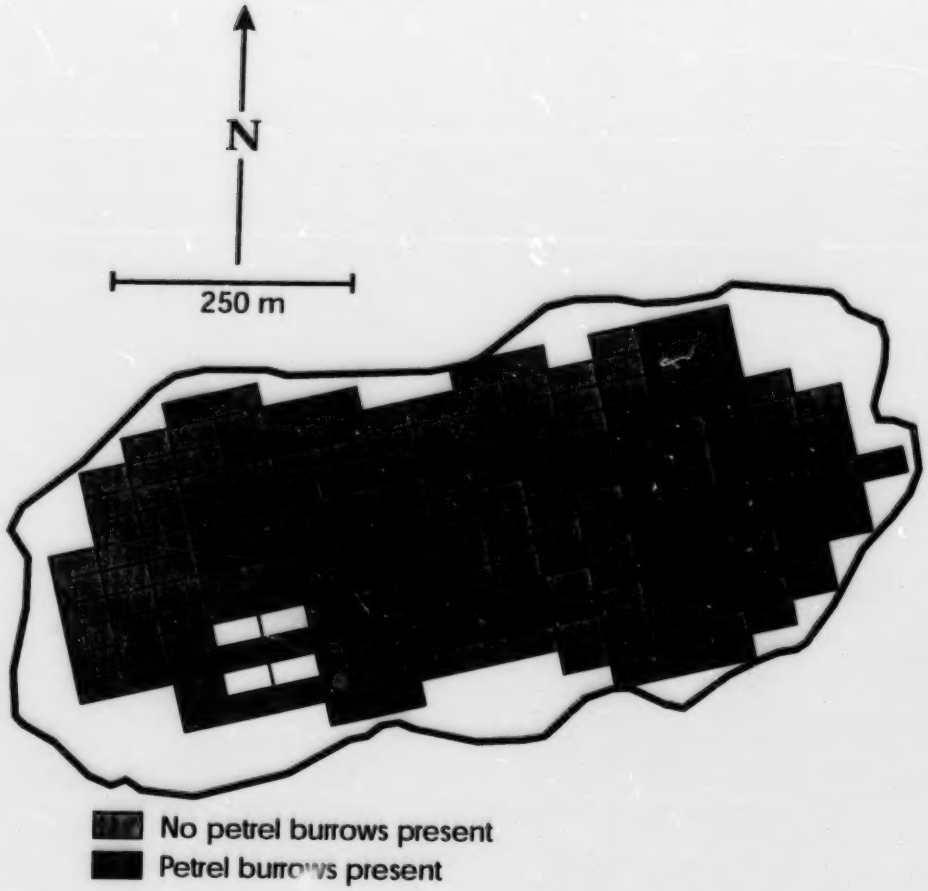

Figure 4. Distribution of Leach's Storm-petrel burrows in 2001 on Green Island, Newfoundland.

Appendix 1. Raw data from Leach's Storm-petrel surveys, 2001. All data based on 16 m^2 plots. Grid coordinates are based on eastwards and northwards distance (in metres) from point 0,0 (see Figures 2-4). UTM coordinates for these points are 22 T 365475, 5235700 for Gull Island, 21 T 605447, 5191504 for Middle Lawn Island and 21 T 569035, 5191917 for Green Island.

Island	Easting	Northing	Entrance	Short	Empty	Occupied	Unknown	Date
Gull	75	450	0	0	1	2	0	12 July 2001
Gull	75	525	5	4	5	5	0	12 July 2001
Gull	75	600	9	7	17	12	1	12 July 2001
Gull	75	675	3	3	10	7	1	12 July 2001
Gull	75	750	2	4	4	14	0	12 July 2001
Gull	0	750	0	0	0	0	0	12 July 2001
Gull	0	600	0	0	0	0	0	12 July 2001
Gull	75	825	1	3	7	10	3	13 July 2001
Gull	75	900	0	2	5	12	1	13 July 2001
Gull	75	975	0	1	3	4	0	13 July 2001
Gull	0	975	0	0	0	0	0	13 July 2001
Gull	0	900	0	0	0	0	0	13 July 2001
Gull	0	825	0	0	0	0	0	13 July 2001
Gull	150	1275	0	0	0	0	0	13 July 2001
Gull	150	900	0	0	0	0	0	13 July 2001
Gull	150	1125	0	1	6	13	1	13 July 2001
Gull	150	1050	6	4	4	1	1	13 July 2001
Gull	150	975	5	2	0	9	1	13 July 2001
Gull	150	900	1	1	2	13	0	13 July 2001
Gull	150	825	1	1	4	11	4	13 July 2001
Gull	150	750	7	3	8	18	2	13 July 2001
Gull	150	675	2	3	10	18	3	13 July 2001
Gull	150	600	0	3	6	17	1	13 July 2001
Gull	75	1050	0	0	0	0	0	13 July 2001
Gull	150	525	0	1	4	14	0	14 July 2001
Gull	150	450	1	0	3	15	1	14 July 2001
Gull	150	375	1	0	4	17	2	14 July 2001
Gull	225	300	0	0	0	0	0	14 July 2001
Gull	225	375	0	0	0	0	0	14 July 2001
Gull	225	450	2	0	6	10	2	14 July 2001
Gull	225	525	0	0	4	9	0	14 July 2001
Gull	225	600	1	0	2	14	1	14 July 2001
Gull	225	675	1	3	4	13	0	14 July 2001
Gull	225	750	1	1	5	26	5	14 July 2001
Gull	225	825	5	3	3	17	1	14 July 2001
Gull	225	900	2	1	5	17	1	14 July 2001
Gull	300	300	0	0	0	0	0	15 July 2001
Gull	300	375	0	0	1	12	0	15 July 2001
Gull	300	450	1	4	3	14	0	15 July 2001
Gull	300	525	0	4	3	9	0	15 July 2001
Gull	300	600	2	3	1	11	1	15 July 2001
Gull	300	675	2	4	3	8	0	15 July 2001
Gull	300	750	7	6	2	7	2	15 July 2001
Gull	300	825	0	1	2	1	0	15 July 2001

Gull	300	900	3	3	3	5	2	15 July 2001
Gull	300	975	1	2	3	10	0	15 July 2001
Gull	300	1050	1	1	0	0	3	15 July 2001
Gull	300	1125	0	6	1	27	3	15 July 2001
Gull	300	1200	3	5	10	27	3	15 July 2001
Gull	300	1275	0	0	0	0	0	15 July 2001
Gull	225	1200	0	0	0	0	0	15 July 2001
Gull	225	1125	0	2	2	17	3	15 July 2001
Gull	225	1050	0	4	2	6	1	15 July 2001
Gull	225	975	1	1	3	31	7	15 July 2001
Gull	75	300	0	0	0	0	0	16 July 2001
Gull	150	225	0	0	0	0	0	16 July 2001
Gull	150	150	0	0	0	0	0	16 July 2001
Gull	150	75	0	0	0	0	0	16 July 2001
Gull	75	0	0	0	0	0	0	16 July 2001
Gull	75	75	0	0	0	0	0	16 July 2001
Gull	75	150	0	0	0	0	0	16 July 2001
Gull	75	225	0	0	0	0	0	16 July 2001
Gull	375	300	0	0	0	0	0	16 July 2001
Gull	450	375	0	0	0	0	0	16 July 2001
Gull	525	300	0	0	0	0	0	16 July 2001
Gull	600	300	0	0	0	0	0	16 July 2001
Gull	600	375	0	0	0	0	0	16 July 2001
Gull	600	450	0	0	0	0	0	16 July 2001
Gull	675	450	0	0	0	0	0	16 July 2001
Gull	675	525	0	0	0	0	0	16 July 2001
Gull	675	600	0	0	0	0	0	16 July 2001
Gull	675	675	0	0	0	0	0	16 July 2001
Gull	675	750	0	0	0	0	0	16 July 2001
Gull	675	825	0	0	0	0	0	16 July 2001
Gull	675	900	0	0	0	0	0	16 July 2001
Gull	675	975	0	0	0	0	0	16 July 2001
Gull	750	975	0	0	0	0	0	16 July 2001
Gull	750	900	0	0	0	0	0	16 July 2001
Gull	750	825	0	0	0	0	0	16 July 2001
Gull	675	1050	0	0	0	0	0	16 July 2001
Gull	675	1125	0	0	0	0	0	16 July 2001
Gull	600	1125	0	0	0	0	0	16 July 2001
Gull	600	1200	0	0	0	0	0	16 July 2001
Gull	525	1275	0	0	0	0	0	16 July 2001
Gull	525	1350	0	0	0	0	0	16 July 2001
Gull	450	1275	0	0	0	0	0	16 July 2001
Gull	375	1275	0	0	0	0	0	16 July 2001
Gull	375	1350	0	0	0	0	1	17 July 2001
Gull	375	1200	3	1	14	24	1	17 July 2001
Gull	375	1125	6	3	3	11	0	17 July 2001
Gull	375	1050	0	4	5	10	3	17 July 2001
Gull	375	975	0	2	2	9	3	17 July 2001
Gull	375	900	0	2	6	15	0	17 July 2001
Gull	375	825	2	6	3	10	1	17 July 2001
Gull	375	750	1	3	5			

Gull	375	675	0	5	3	11	1	17 July 2001
Gull	375	600	2	4	5	4	0	17 July 2001
Gull	375	525	2	1	8	18	1	17 July 2001
Gull	375	450	1	2	3	11	0	17 July 2001
Gull	375	375	2	4	1	15	0	17 July 2001
Gull	450	450	2	7	1	20	0	19 July 2001
Gull	450	525	1	2	5	15	1	19 July 2001
Gull	450	600	5	3	5	11	1	19 July 2001
Gull	450	675	4	2	2	1	0	19 July 2001
Gull	450	750	0	0	0	0	0	19 July 2001
Gull	450	825	1	6	5	5	1	19 July 2001
Gull	450	900	0	2	2	0	1	19 July 2001
Gull	450	975	1	2	3	14	1	19 July 2001
Gull	450	1050	5	5	5	20	3	19 July 2001
Gull	450	1125	0	1	2	12	0	19 July 2001
Gull	450	1200	0	0	0	0	0	19 July 2001
Gull	525	1200	0	0	0	0	0	19 July 2001
Gull	525	1125	0	3	0	4	0	19 July 2001
Gull	525	1050	1	7	9	10	1	19 July 2001
Gull	600	1050	0	2	2	2	0	19 July 2001
Gull	600	975	2	3	5	11	5	19 July 2001
Gull	600	900	5	6	4	22	3	19 July 2001
Gull	525	375	0	0	2	8	2	20 July 2001
Gull	525	450	0	2	4	13	2	20 July 2001
Gull	525	525	1	1	2	17	1	20 July 2001
Gull	525	600	3	7	2	13	0	20 July 2001
Gull	525	675	1	7	3	14	1	20 July 2001
Gull	525	750	1	2	2	11	0	20 July 2001
Gull	525	825	0	2	0	0	0	20 July 2001
Gull	525	900	0	2	2	16	1	20 July 2001
Gull	525	975	1	4	2	7	1	20 July 2001
Gull	600	825	0	2	1	11	0	20 July 2001
Gull	600	750	1	4	8	22	3	20 July 2001
Gull	600	675	7	3	8	26	7	20 July 2001
Gull	600	600	0	1	2	6	2	20 July 2001
Gull	600	525	0	0	0	0	0	20 July 2001
Gull	150	300	0	0	4	5	3	20 July 2001
Gull	75	375	0	1	0	1	0	20 July 2001
MLawn	0	175	0	0	0	0	0	31 July 2001
MLawn	0	200	0	0	0	0	0	31 July 2001
MLawn	0	225	0	0	0	0	0	31 July 2001
MLawn	0	250	0	0	0	0	0	31 July 2001
MLawn	25	250	0	0	0	0	0	31 July 2001
MLawn	-25	225	0	0	0	0	0	31 July 2001
MLawn	-50	225	0	0	0	0	0	31 July 2001
MLawn	-75	200	0	0	0	0	0	31 July 2001
MLawn	-25	175	0	0	0	0	0	31 July 2001
MLawn	-50	175	0	0	0	0	0	31 July 2001
MLawn	-75	175	0	0	0	0	0	31 July 2001
MLawn	-100	175	0	0	0	0	0	31 July 2001
MLawn	-25	150	0	0	0	0	0	31 July 2001

MLawn	-50	150	0	0	0	0	0	31 July 2001
MLawn	-75	150	0	0	0	0	0	31 July 2001
MLawn	-100	150	0	0	0	0	0	31 July 2001
MLawn	-125	150	0	0	0	0	0	31 July 2001
MLawn	-50	125	0	0	0	0	0	31 July 2001
MLawn	-75	125	0	0	0	0	0	31 July 2001
MLawn	-100	125	1	0	1	1	0	31 July 2001
MLawn	-125	125	1	0	0	1	0	31 July 2001
MLawn	-150	125	0	0	0	0	0	31 July 2001
MLawn	-50	100	0	0	0	0	0	31 July 2001
MLawn	-75	100	0	0	0	0	0	31 July 2001
MLawn	-100	100	0	0	0	0	0	31 July 2001
MLawn	-125	100	0	0	0	1	0	31 July 2001
MLawn	-150	100	0	0	0	0	0	31 July 2001
MLawn	-175	100	0	0	0	0	0	31 July 2001
MLawn	-75	225	0	0	0	0	0	31 July 2001
MLawn	-25	200	0	0	0	0	0	31 July 2001
MLawn	-50	200	0	0	1	4	0	31 July 2001
MLawn	-25	125	2	0	2	1	0	1 Aug 2001
MLawn	-25	100	1	4	1	3	0	1 Aug 2001
MLawn	0	100	3	2	2	7	0	1 Aug 2001
MLawn	0	75	0	0	2	23	1	1 Aug 2001
MLawn	-25	75	0	1	5	12	0	1 Aug 2001
MLawn	-50	75	0	2	9	18	3	1 Aug 2001
MLawn	0	50	1	1	5	12	0	1 Aug 2001
MLawn	-25	50	1	2	5	10	0	1 Aug 2001
MLawn	-50	50	0	2	2	9	1	1 Aug 2001
MLawn	-75	50	2	4	4	11	0	1 Aug 2001
MLawn	-100	50	0	0	0	0	0	1 Aug 2001
MLawn	-125	50	0	0	0	0	0	1 Aug 2001
MLawn	-150	50	0	0	0	0	0	1 Aug 2001
MLawn	-175	50	0	0	0	0	0	1 Aug 2001
MLawn	-200	50	0	0	0	0	0	1 Aug 2001
MLawn	-75	75	0	0	0	0	0	2 Aug 2001
MLawn	-100	75	0	0	0	3	0	2 Aug 2001
MLawn	-125	75	0	0	1	0	0	2 Aug 2001
MLawn	-150	75	0	0	0	0	0	2 Aug 2001
MLawn	-175	75	0	0	0	0	0	2 Aug 2001
MLawn	-200	75	0	0	0	0	0	2 Aug 2001
MLawn	-100	25	0	0	0	0	0	2 Aug 2001
MLawn	-125	25	0	0	0	0	0	2 Aug 2001
MLawn	-150	25	0	0	0	0	0	2 Aug 2001
MLawn	-100	0	0	0	0	0	0	2 Aug 2001
MLawn	-125	0	0	0	0	0	0	2 Aug 2001
MLawn	-150	0	0	0	0	0	0	2 Aug 2001
MLawn	-125	-25	0	0	0	0	0	2 Aug 2001
MLawn	-100	-50	0	0	0	0	0	2 Aug 2001
MLawn	-25	-100	0	0	0	0	0	2 Aug 2001
MLawn	-50	-100	0	0	0	0	0	2 Aug 2001
MLawn	0	-100	0	0	0	0	0	2 Aug 2001
MLawn	25	-75	0	0	0	1	0	2 Aug 2001

MLawn	50	-25	0	0	0	0	0	2 Aug 2001
MLawn	75	0	0	0	0	0	0	2 Aug 2001
MLawn	25	0	0	1	0	1	0	2 Aug 2001
MLawn	50	50	0	0	0	0	0	2 Aug 2001
MLawn	75	50	0	0	0	0	0	2 Aug 2001
MLawn	50	75	0	0	0	0	0	2 Aug 2001
MLawn	75	75	0	0	0	0	0	2 Aug 2001
MLawn	75	100	0	0	0	0	0	2 Aug 2001
MLawn	50	125	0	0	0	0	0	2 Aug 2001
MLawn	50	100	0	0	0	0	0	2 Aug 2001
MLawn	0	0	3	4	2	6	0	2 Aug 2001
MLawn	0	-25	1	0	0	16	1	2 Aug 2001
MLawn	0	-50	1	3	6	10	1	2 Aug 2001
MLawn	0	-75	0	0	0	0	0	2 Aug 2001
MLawn	-75	25	0	0	2	6	0	3 Aug 2001
MLawn	-50	25	0	2	2	7	1	3 Aug 2001
MLawn	-50	0	0	1	3	6	0	3 Aug 2001
MLawn	-50	-25	7	6	9	16	0	3 Aug 2001
MLawn	-75	-25	0	3	0	1	0	3 Aug 2001
MLawn	-75	0	1	2	1	6	0	3 Aug 2001
MLawn	-100	-25	0	1	4	2	0	3 Aug 2001
MLawn	-75	-50	1	6	8	15	0	3 Aug 2001
MLawn	-75	-75	2	7	3	3	1	3 Aug 2001
MLawn	-50	-75	0	1	1	1	0	3 Aug 2001
MLawn	-25	-75	5	7	9	13	2	3 Aug 2001
MLawn	0	125	0	0	0	0	0	3 Aug 2001
MLawn	25	-50	1	1	2	2	0	3 Aug 2001
MLawn	25	-25	0	2	1	3	0	3 Aug 2001
MLawn	-25	-25	0	0	0	5	1	3 Aug 2001
MLawn	-25	-50	3	2	2	12	0	3 Aug 2001
MLawn	-25	0	0	1	0	6	0	3 Aug 2001
MLawn	0	25	1	2	3	17	2	3 Aug 2001
MLawn	25	-100	0	0	0	0	0	3 Aug 2001
MLawn	25	125	0	0	1	0	0	4 Aug 2001
MLawn	25	100	2	4	3	8	0	4 Aug 2001
MLawn	25	75	3	1	9	35	0	4 Aug 2001
MLawn	25	50	2	4	4	3	0	4 Aug 2001
MLawn	25	25	0	0	0	1	0	4 Aug 2001
MLawn	50	0	3	2	4	1	0	4 Aug 2001
MLawn	50	25	0	0	0	0	0	4 Aug 2001
MLawn	-25	25	0	0	1	6	0	4 Aug 2001
MLawn	-50	-50	1	8	4	7	0	4 Aug 2001
Green	0	0	0	0	0	0	0	7 Aug 2001
Green	-25	0	0	0	0	0	0	7 Aug 2001
Green	-50	0	0	0	0	0	0	7 Aug 2001
Green	0	50	0	0	0	0	0	7 Aug 2001
Green	-25	50	0	0	0	0	0	7 Aug 2001
Green	-50	50	0	0	0	0	0	7 Aug 2001
Green	0	100	0	0	0	0	0	7 Aug 2001
Green	-25	100	0	0	0	0	0	7 Aug 2001
Green	-50	100	0	0	1	0	0	7 Aug 2001

Green	-75	100	0	0	0	0	0	7 Aug 2001
Green	-100	100	0	0	0	0	0	7 Aug 2001
Green	0	150	0	0	0	0	0	7 Aug 2001
Green	-50	150	0	0	0	0	0	7 Aug 2001
Green	-100	150	0	0	0	0	0	7 Aug 2001
Green	-50	200	0	0	0	0	0	7 Aug 2001
Green	-100	200	0	0	0	0	0	7 Aug 2001
Green	-25	250	2	6	5	46	3	8 Aug 2001
Green	-50	250	0	0	0	4	0	8 Aug 2001
Green	-75	250	0	0	0	0	0	8 Aug 2001
Green	-100	250	0	0	0	0	0	8 Aug 2001
Green	-125	250	0	0	0	0	0	8 Aug 2001
Green	-25	300	0	0	0	0	0	8 Aug 2001
Green	-50	300	0	0	0	0	0	8 Aug 2001
Green	-75	300	0	4	4	38	2	8 Aug 2001
Green	-100	300	0	0	0	1	0	8 Aug 2001
Green	-125	300	0	0	0	0	0	8 Aug 2001
Green	0	350	0	0	0	0	0	8 Aug 2001
Green	-100	350	0	0	0	0	0	9 Aug 2001
Green	-75	350	0	0	1	0	0	9 Aug 2001
Green	-50	350	0	1	1	1	0	9 Aug 2001
Green	-25	350	2	2	5	38	2	9 Aug 2001
Green	0	400	0	0	0	0	0	9 Aug 2001
Green	-100	400	0	0	0	0	0	9 Aug 2001
Green	-75	400	3	7	2	27	5	9 Aug 2001
Green	-50	400	0	1	1	2	0	9 Aug 2001
Green	-25	400	0	0	0	0	0	9 Aug 2001
Green	0	450	0	0	0	0	0	9 Aug 2001
Green	-25	450	0	0	0	0	0	9 Aug 2001
Green	-50	450	0	0	1	0	0	9 Aug 2001
Green	-75	450	0	2	3	2	0	9 Aug 2001
Green	-100	450	0	0	0	0	0	9 Aug 2001
Green	25	0	0	0	0	0	0	9 Aug 2001
Green	50	0	0	0	0	0	0	9 Aug 2001
Green	75	0	0	0	0	0	0	9 Aug 2001
Green	25	50	0	0	0	0	0	9 Aug 2001
Green	50	50	0	0	0	0	0	9 Aug 2001
Green	75	50	0	0	0	0	0	9 Aug 2001
Green	100	50	0	0	0	0	0	9 Aug 2001
Green	125	50	0	0	0	0	0	9 Aug 2001
Green	150	50	0	0	0	0	0	9 Aug 2001
Green	25	100	0	0	0	0	0	10 Aug 2001
Green	50	100	0	0	0	0	0	10 Aug 2001
Green	75	100	0	0	0	0	0	10 Aug 2001
Green	100	100	0	0	0	0	0	10 Aug 2001
Green	125	100	0	0	0	0	0	10 Aug 2001
Green	150	100	0	0	0	0	0	10 Aug 2001
Green	175	100	0	0	0	0	0	10 Aug 2001
Green	25	150	0	0	0	0	0	10 Aug 2001
Green	50	150	6	6	5	40	5	10 Aug 2001
Green	75	150	0	5	0	14	2	10 Aug 2001

Green	100	150	1	4	4	7	0	10 Aug 2001
Green	125	150	0	0	0	0	0	10 Aug 2001
Green	150	150	0	0	0	0	0	10 Aug 2001
Green	175	150	0	0	0	0	0	10 Aug 2001
Green	200	150	1	1	3	9	1	10 Aug 2001
Green	0	200	2	3	8	30	3	10 Aug 2001
Green	25	200	0	0	0	0	0	11 Aug 2001
Green	50	200	4	2	7	51	13	11 Aug 2001
Green	75	200	0	0	0	0	0	11 Aug 2001
Green	100	200	0	0	0	7	1	11 Aug 2001
Green	125	200	0	0	0	0	0	11 Aug 2001
Green	150	200	0	0	0	1	0	11 Aug 2001
Green	175	200	0	0	0	0	0	11 Aug 2001
Green	200	200	0	0	0	0	0	11 Aug 2001
Green	0	250	0	0	0	3	0	11 Aug 2001
Green	25	250	0	0	0	0	0	11 Aug 2001
Green	50	250	0	2	2	4	1	11 Aug 2001
Green	75	250	0	0	0	0	0	11 Aug 2001
Green	100	250	0	1	0	1	0	11 Aug 2001
Green	125	250	0	0	0	0	0	11 Aug 2001
Green	150	250	0	1	0	2	0	11 Aug 2001
Green	175	250	0	0	0	0	0	11 Aug 2001
Green	0	300	5	1	3	6	2	11 Aug 2001
Green	25	300	0	4	6	42	6	11 Aug 2001
Green	50	300	4	7	4	41	5	12 Aug 2001
Green	75	300	0	0	0	0	0	12 Aug 2001
Green	100	300	0	0	1	0	0	12 Aug 2001
Green	125	300	0	0	0	0	0	12 Aug 2001
Green	150	300	0	0	1	0	0	12 Aug 2001
Green	175	300	0	0	0	0	0	12 Aug 2001
Green	0	350	0	0	0	0	0	12 Aug 2001
Green	25	350	0	1	0	6	2	12 Aug 2001
Green	50	350	0	0	0	0	0	12 Aug 2001
Green	75	350	0	0	0	0	0	13 Aug 2001
Green	100	350	0	2	0	14	1	13 Aug 2001
Green	125	350	0	0	0	0	0	13 Aug 2001
Green	150	350	0	0	0	0	0	13 Aug 2001
Green	0	400	0	0	0	0	0	13 Aug 2001
Green	25	400	0	0	0	0	0	13 Aug 2001
Green	50	400	0	1	1	4	0	13 Aug 2001
Green	75	400	0	0	0	0	0	13 Aug 2001
Green	100	400	1	3	3	11	3	13 Aug 2001
Green	125	400	0	0	0	0	0	13 Aug 2001
Green	150	400	0	0	0	0	0	13 Aug 2001
Green	0	450	0	0	0	0	0	13 Aug 2001
Green	25	450	0	0	0	0	0	13 Aug 2001
Green	50	450	0	0	0	0	0	13 Aug 2001
Green	75	450	0	0	4	1	0	13 Aug 2001
Green	100	450	0	1	2	3	1	13 Aug 2001
Green	125	450	0	0	0	0	0	13 Aug 2001
Green	150	450	0	0	0	0	0	13 Aug 2001

Green	175	450	1	0	2	0	0	13 Aug 2001
Green	0	500	0	0	0	0	0	13 Aug 2001
Green	-25	500	0	6	4	35	5	13 Aug 2001
Green	-50	500	0	0	0	0	0	13 Aug 2001
Green	-75	500	0	3	0	17	0	13 Aug 2001
Green	-100	500	0	0	0	0	0	13 Aug 2001
Green	-125	500	0	0	0	0	0	13 Aug 2001
Green	0	550	0	2	1	4	1	13 Aug 2001
Green	-25	550	0	0	0	0	0	13 Aug 2001
Green	-50	550	0	0	0	1	1	13 Aug 2001
Green	-75	550	0	0	0	0	0	13 Aug 2001
Green	-100	550	0	1	0	0	0	13 Aug 2001
Green	-125	550	0	2	2	0	0	13 Aug 2001
Green	-150	550	0	0	0	0	0	13 Aug 2001
Green	0	600	0	0	2	4	0	13 Aug 2001
Green	25	500	0	3	0	4	0	14 Aug 2001
Green	50	500	0	0	1	1	0	14 Aug 2001
Green	75	500	0	3	0	2	0	14 Aug 2001
Green	100	500	0	0	1	0	0	14 Aug 2001
Green	125	500	0	0	0	0	0	14 Aug 2001
Green	150	500	0	0	0	0	0	14 Aug 2001
Green	175	500	0	0	0	0	0	14 Aug 2001
Green	25	550	0	1	0	0	0	14 Aug 2001
Green	50	550	0	2	2	16	0	14 Aug 2001
Green	75	550	0	0	0	0	0	14 Aug 2001
Green	100	550	0	0	0	0	0	14 Aug 2001
Green	125	550	0	0	0	0	0	14 Aug 2001
Green	150	550	0	0	0	0	0	14 Aug 2001
Green	-25	600	0	0	0	3	0	14 Aug 2001
Green	-50	600	0	1	3	38	5	14 Aug 2001
Green	-75	600	0	0	0	9	2	14 Aug 2001
Green	-100	600	0	0	2	5	4	14 Aug 2001
Green	-125	600	2	2	7	8	1	14 Aug 2001
Green	-150	600	0	0	0	0	0	14 Aug 2001
Green	25	600	0	1	3	34	3	14 Aug 2001
Green	50	600	1	1	3	30	3	14 Aug 2001
Green	75	600	0	0	0	8	0	14 Aug 2001
Green	100	600	0	0	1	1	0	14 Aug 2001
Green	125	600	0	0	0	0	0	14 Aug 2001
Green	150	600	0	0	0	0	0	14 Aug 2001
Green	175	600	0	0	0	0	0	14 Aug 2001
Green	0	650	0	2	1	25	0	14 Aug 2001
Green	25	650	0	0	0	0	0	14 Aug 2001
Green	50	650	0	0	0	0	0	14 Aug 2001
Green	75	650	0	2	0	0	0	14 Aug 2001
Green	100	650	0	2	1	0	0	14 Aug 2001
Green	125	650	0	1	1	3	2	14 Aug 2001
Green	150	650	3	0	1	21	3	14 Aug 2001
Green	175	650	0	1	1	4	0	14 Aug 2001
Green	0	700	0	0	0	0	0	14 Aug 2001
Green	-25	650	2	2	4	53	6	14 Aug 2001

Green	-50	650	1	2	3	11	0	14 Aug 2001
Green	-75	650	0	1	0	5	0	14 Aug 2001
Green	-100	650	0	1	0	1	0	14 Aug 2001
Green	-125	650	0	0	0	0	0	14 Aug 2001
Green	-150	650	0	0	0	0	0	14 Aug 2001
Green	0	700	0	3	0	2	0	14 Aug 2001
Green	25	700	0	0	0	5	0	15 Aug 2001
Green	50	700	0	0	1	8	0	15 Aug 2001
Green	75	700	0	0	0	4	0	15 Aug 2001
Green	100	700	0	1	0	2	0	15 Aug 2001
Green	125	700	0	0	1	0	0	15 Aug 2001
Green	150	700	0	0	0	1	0	15 Aug 2001
Green	175	700	0	0	1	1	0	15 Aug 2001
Green	-25	700	0	5	4	30	7	15 Aug 2001
Green	-50	700	0	0	0	0	0	15 Aug 2001
Green	-75	700	1	0	0	6	0	15 Aug 2001
Green	-100	700	0	0	0	0	0	15 Aug 2001
Green	-125	700	0	1	3	13	1	15 Aug 2001
Green	0	750	0	0	0	0	0	15 Aug 2001
Green	25	750	0	0	0	0	3	15 Aug 2001
Green	50	750	0	1	0	0	0	15 Aug 2001
Green	75	750	0	0	0	0	0	15 Aug 2001
Green	100	750	0	0	0	0	0	15 Aug 2001
Green	0	800	0	0	0	0	0	15 Aug 2001
Green	25	800	0	0	0	0	0	15 Aug 2001
Green	50	800	0	0	0	0	0	15 Aug 2001
Green	75	800	0	0	0	0	0	15 Aug 2001
Green	-25	750	0	0	0	0	0	15 Aug 2001
Green	-50	750	0	0	0	1	0	15 Aug 2001
Green	-75	750	0	0	0	0	0	15 Aug 2001
Green	-100	750	2	2	1	5	1	15 Aug 2001
Green	-25	800	0	0	0	0	0	15 Aug 2001
Green	-50	800	0	0	0	1	0	15 Aug 2001
Green	0	850	0	0	0	0	0	15 Aug 2001